



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Air Performance, Inc.  
159 Genco Drive  
Hartford, AL 36344

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model 5WDRL 5" Blade Aluminum Louver System**

**APPROVAL DOCUMENT:** Drawing No. 15-153, titled "5" Blade Louvered System, Model 5WDRL", sheets 1 through 7 of 7, prepared by Tilteco, Inc, dated 05/28/2015, signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises and renews NOA # 12-0314.15 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



*[Signature]*  
04/19/2016

NOA No. 15-1008.05  
Expiration Date: March 10, 2021  
Approval Date: April 28, 2016  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **15-153**, titled "5" Blade Louvered System, Model 5WDRL", sheets 1 through 7 of 7, prepared by Tilteco, Inc, dated 05/28/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

**B. TESTS "Submitted under NOA # 10-1214.14"**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
4) Tensile Test, per ASTM E8

Along with marked-up drawings and installation diagram of a Model 5WDRL 5" Blade Aluminum Louvered System, prepared by American Test Lab of South Florida, Test Report No. **0726.01-10**, dated 09/16/2010, signed and sealed by Julio E. Gonzalez, P.E.

**C. CALCULATIONS**

1. Anchor calculations prepared by Tilteco, Inc, dated 06/02/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

*"Submitted under NOA # 10-1214.14"*

2. Anchor verification calculations prepared by Tilteco, Inc, dated 07/26/2010, signed and sealed by Walter A. Tillit, Jr., P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

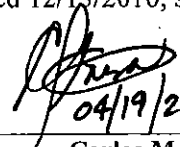
1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Tilteco, Inc, dated 05/28/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

*"Submitted under NOA # 12-0314.15"*

2. Statement letter of code conformance to the 2010 FBC, issued by Tilteco, Inc, dated 03/12/2012, signed and sealed by Walter A. Tillit, Jr., P.E.

*"Submitted under NOA # 10-1214.14"*

3. Statement letter of conformance to the 2007 FBC, issued by Tilteco, Inc, dated 12/13/2010, signed and sealed by Walter A. Tillit, Jr., P.E.
4. Statement letter of no financial interest issued by Tilteco, Inc, dated 12/13/2010, signed and sealed by Walter A. Tillit, Jr., P.E.



04/19/2016

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 15-1008.05

Expiration Date: March 10, 2021

Approval Date: April 28, 2016

**GENERAL NOTES:**

- 1). **5" BLADE LOUVERED SYSTEM** SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2014 (5th EDITION)** OF THE FLORIDA BUILDING CODE. **5" BLADE LOUVERED SYSTEM** MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE/BROWARD COUNTIES).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION **1620** OF THE ABOVE MENTIONED CODE, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS NOTE.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THIS NOTE.

IN ORDER TO VERIFY THAT COMPONENTS ON THIS (P.A.D.), AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2012.

**5" BLADE LOUVERED SYSTEM** ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1626** OF THE ABOVE MENTIONED CODE AS PER AMERICAN TESTING LAB OF SOUTH FLORIDA REPORT # 0726.01-10, AS PER TAS-201, TAS-202, TAS-203.

**MAXIMUM A.S.D. DESIGN PRESSURE RATING 150.0, -150.0 psf. LARGE MISSILE IMPACT RESISTANCE.**

- 2). ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY WITH MIN. SPECIFIC YIELD STRENGTHS AS SHOWN ON SHEET 2.
- 3). ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT CARBON STEEL AS PER DIN 50018 & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4. (SEE BILL OF MATERIALS ON SHEET 2)
- 4). ALL WELDING OF ALUMINUM FRAMING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 REGULATIONS. USE CERTIFIED WELDERS. USE ER-5356 ELECTRODES.
- 5). ALL ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS MUST BE PAINTED PER SECTIONS 2003.8.4.2, 2003.8.4.4, 2003.8.4.5 AND 2003.8.4.6 OF THE FLORIDA BUILDING CODE AS APPLICABLE.
- 6). ANCHORS FOR JAMB (3) CONNECTION TO EXISTING STRUCTURE SHALL BE AS FOLLOWS (SEE SHEET 5):

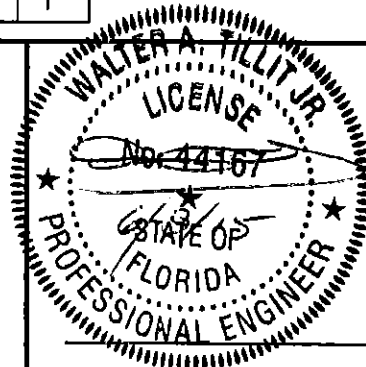
— ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER. EDGE DISTANCE (E.D.), MINIMUM EMBEDMENT OR THREADED PENETRATION ARE BEYOND ANY WALL FINISH.

ANCHOR TYPE	MANUFACTURER	DIAMETER	MINIMUM EMBEDMENT OR THREADED PENETRATION				MIN. EDGE DISTANCE (E.D.)			MIN. SPACING		
			TO POURED CONCRETE (f'c=3182psi Min.)	TO CONCRETE BLOCK (ASTM C-90 UNIT)	TO 1/8" MIN. STEEL (Fy=33ksi Min.)	TO MIN. 2x6 WOOD (G=0.55 Min.)	POURED CONCRETE OR CONCRETE BLOCK	STEEL	WOOD	POURED CONCRETE OR CONCRETE BLOCK	STEEL	WOOD
CRETE-FLEX SS4	ELCO CONSTRUCTION PRODUCTS	1/4"Ø	1 3/4"	1 1/4"	N/A	N/A	2 1/2"	N/A	N/A	3"	N/A	N/A
TEK SCREW	ITW/BUILDEX	1/4"Ø	N/A	N/A	3/4"	N/A	N/A	1"	N/A	N/A	3/4"	N/A
TAPCON	ITW/BUILDEX	1/4"Ø	N/A	N/A	N/A	1 1/2"	N/A	N/A	1"	N/A	N/A	1"

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 15-1008-05  
Expiration Date 03/10/2021  
By *[Signature]*  
Miami Trade Product Control

MIAMI-DADE COUNTY



P.E. SEAL/SIGNATURE/DATE

- 7). ANCHORS FOR MULLION (8) CONNECTION TO EXISTING STRUCTURE SHALL BE AS FOLLOWS (SEE SHEET 7).
- ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER. EDGE DISTANCE (E.D.) MINIMUM EMBEDMENT OR THREADED PENETRATION ARE BEYOND ANY FINISH.

ANCHOR TYPE	MANUFACTURER	DIAMETER	MIN. EMBEDMENT OR THREADED PENETRATION			MIN. EDGE DISTANCE (E.D.)			MIN. SPACING		
			TO POURED CONCRETE (f'c=3000 psi Min.)	TO 1/4" MIN. STEEL (ASTM-A36)	TO MIN. 2x6 WOOD (G=0.55 Min.)	POURED CONCRETE	STEEL	WOOD	POURED CONCRETE	STEEL	WOOD
TAPCON XL	ITW/BUILDEX	5/16"Ø	2 1/4"	N/A	N/A	3 1/8"	N/A	N/A	2"	N/A	N/A
TYPE "F" BOLT OR HHB THRU BOLT W/ NUT & LOCK WASHER	—	5/16"Ø	N/A	1/4"	N/A	N/A	3/4"	N/A	N/A	1 1/8"	N/A
ULTRACON FASTENER	ELCO CONSTRUCTION PRODUCTS	5/16"Ø	N/A	N/A	1 1/2"	N/A	N/A	1 9/16"	N/A	N/A	1 9/16"

- 8). **5" BLADE LOUVERED SYSTEM** SHALL ONLY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.
- 9). IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
- 10). (A) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE PRODUCT APPROVAL DOCUMENT (P.A.D.)
- (B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.), PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (C) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) WILL BE CONSIDERED INVALID IF MODIFIED.
- (D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D.
- (E) ORIGINAL PRODUCT APPROVAL DOCUMENT (P.A.D.) SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OR RECORD THAT PREPARED IT.
- 11). **5" BLADE LOUVERED SYSTEM** MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY OPENING AND SHALL READ AS FOLLOWS:  
AIR PERFORMANCE, INC.  
HARTFORD, ALABAMA  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

©2015 TILTECO, INC

**TILTECO inc.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone : (305)871-1530 . Fax : (305)871-1531  
e-mail: tilteco@aol.com  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

**5" BLADE LOUVERED SYSTEM,  
MODEL 5WDRL**

**AIR PERFORMANCE, INC.**

159 GENCO DRIVE  
HARTFORD, ALABAMA 36344  
PHONE: (334) 588-0070 , FAX: (334) 588-0071

DRAWN BY:  
F.R.L.

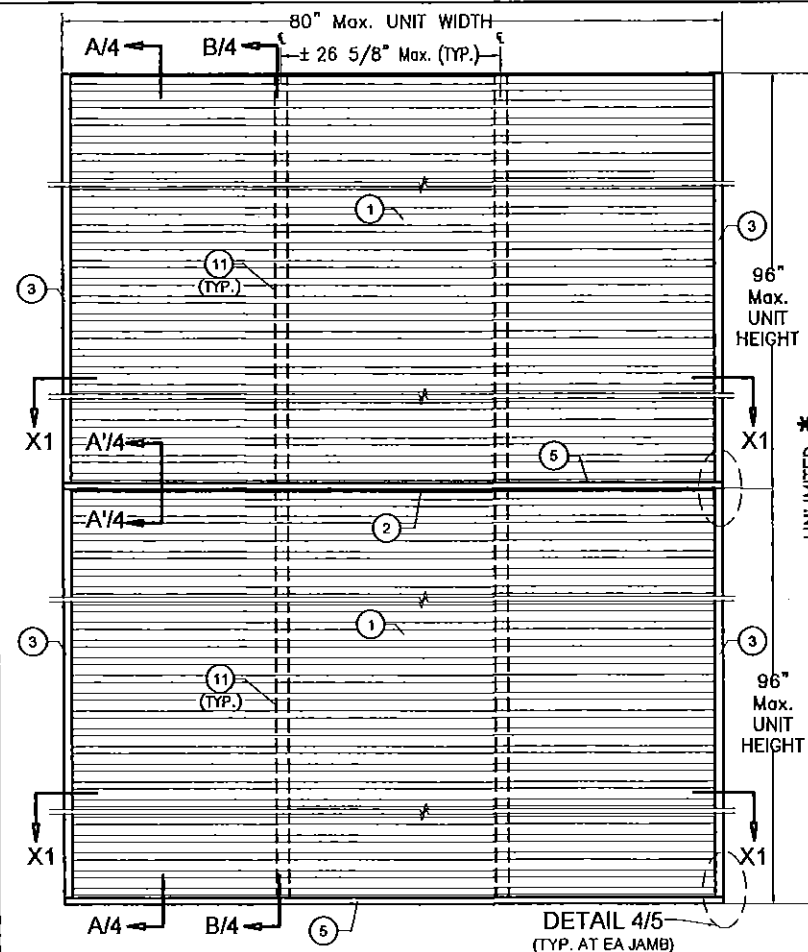
05/28/15  
DATE

15-153  
DRAWING No

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2			4		

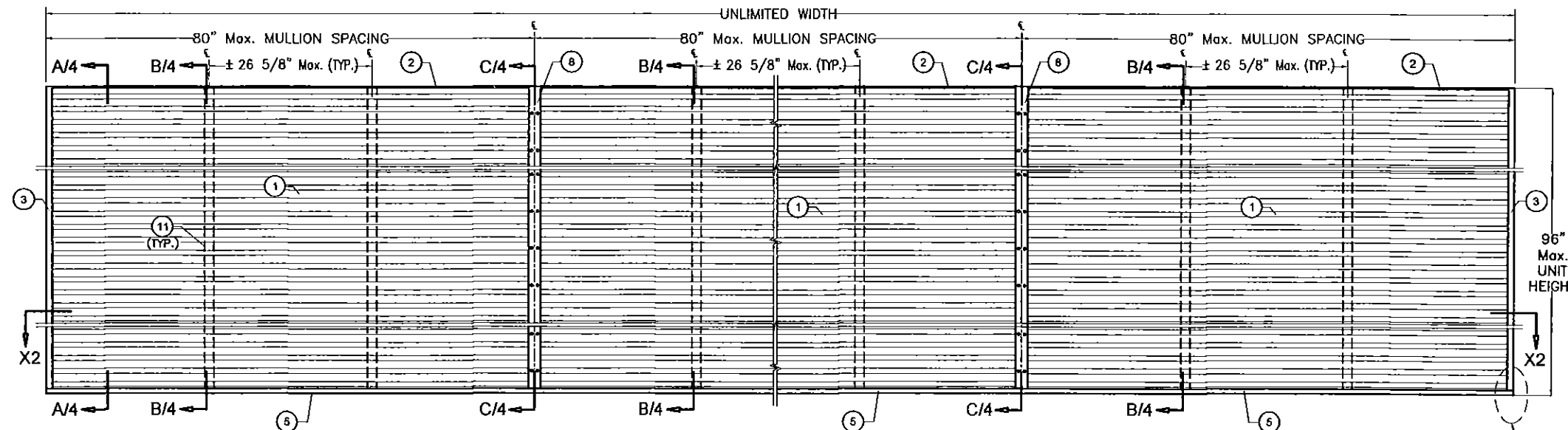
SHEET 1 OF 7





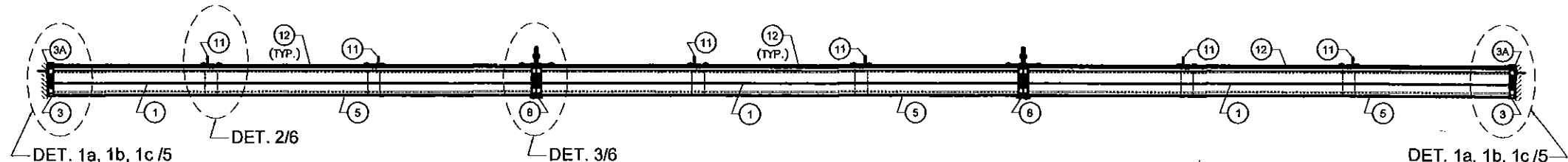
**SINGLE LOUVER UNIT \***  
(EXTERIOR ELEVATION)

\* NUMBER OF LOUVER PANEL UNITS NEEDED TO ACHIEVE THE OPENING OVERALL HEIGHT MAY VARY. HOWEVER MAX. UNIT HEIGHT SHALL NOT EXCEED 96".



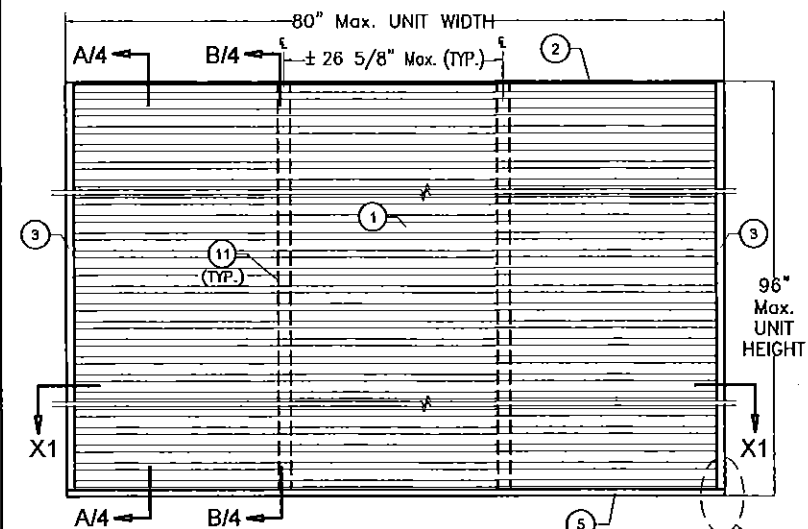
**MULTIPLE LOUVER UNITS**  
(EXTERIOR ELEVATION)

DETAIL 4/5  
(TYP. AT EA JAMB)



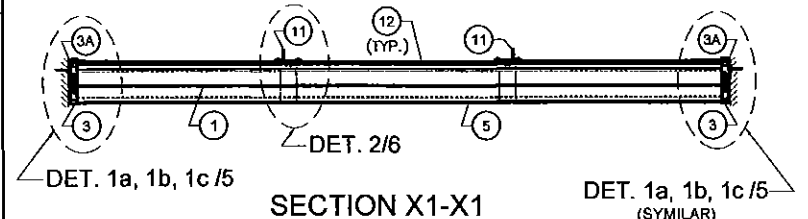
**SECTION X2-X2**

DET. 1a, 1b, 1c/5  
(SYMLAR)



**SINGLE LOUVER UNIT**  
(EXTERIOR ELEVATION)

DETAIL 4/5  
(TYP. AT EA JAMB)



**SECTION X1-X1**

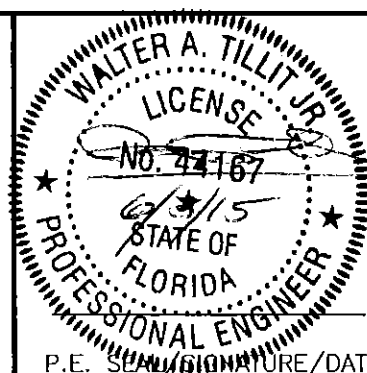
DET. 1a, 1b, 1c/5  
(SYMLAR)

## SINGLE & MULTIPLE UNITS 5WDR L LOUVER SYSTEMS

N.T.S.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-1008.05  
Expiration Date 03/10/2021  
By *[Signature]*  
Miami Tilt Product Control

MIAMI-DADE COUNTY



P.E. SIGNATURE/DATE

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e-mail: tilteco@aol.com  
EB-0006719  
WALTER A. TILLIT Jr., P.E.  
FLORIDA Lic. # 44167

5" BLADE LOUVERED SYSTEM,  
MODEL 5WDR L

AIR PERFORMANCE, INC.

159 GENCO DRIVE  
HARTFORD, ALABAMA 36344  
PHONE: (334) 588-0070, FAX: (334) 588-0071

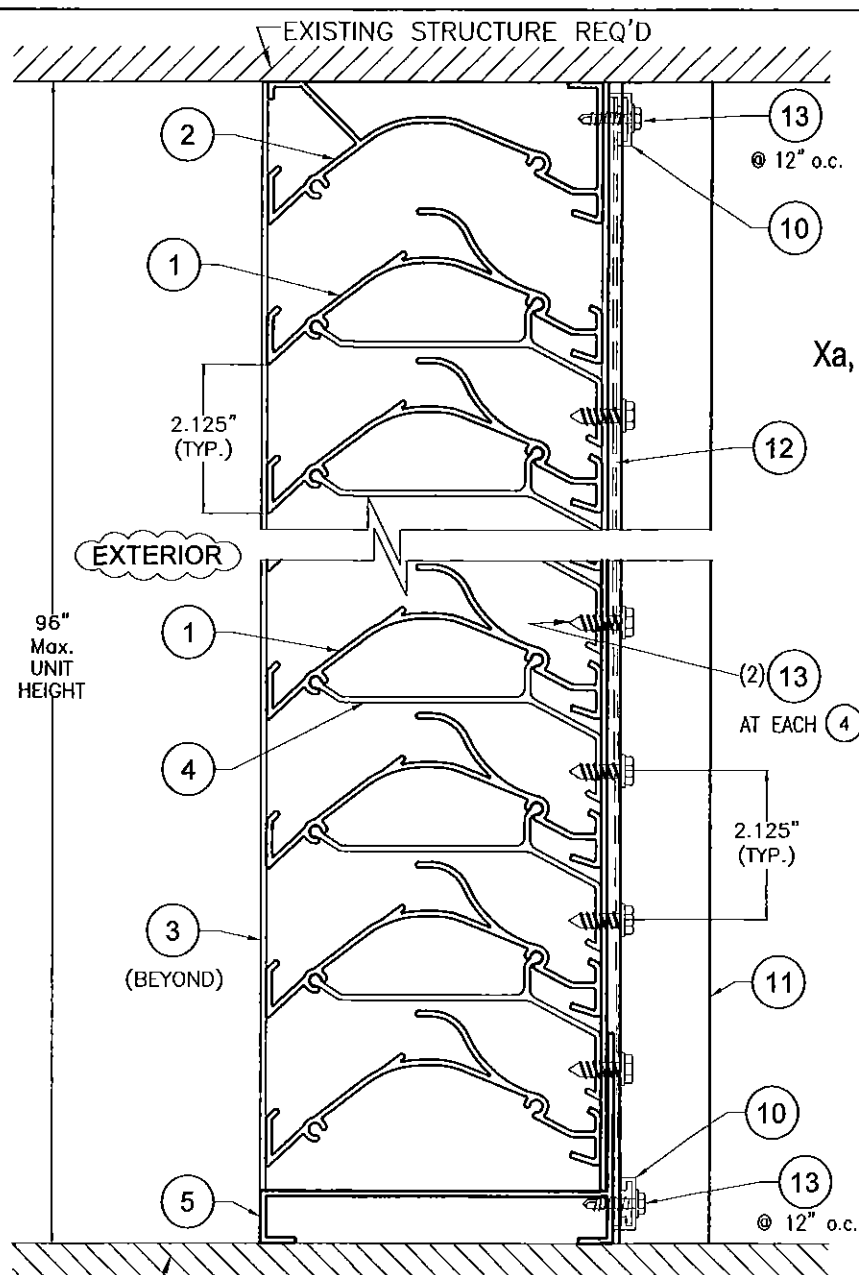
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F.R.L.

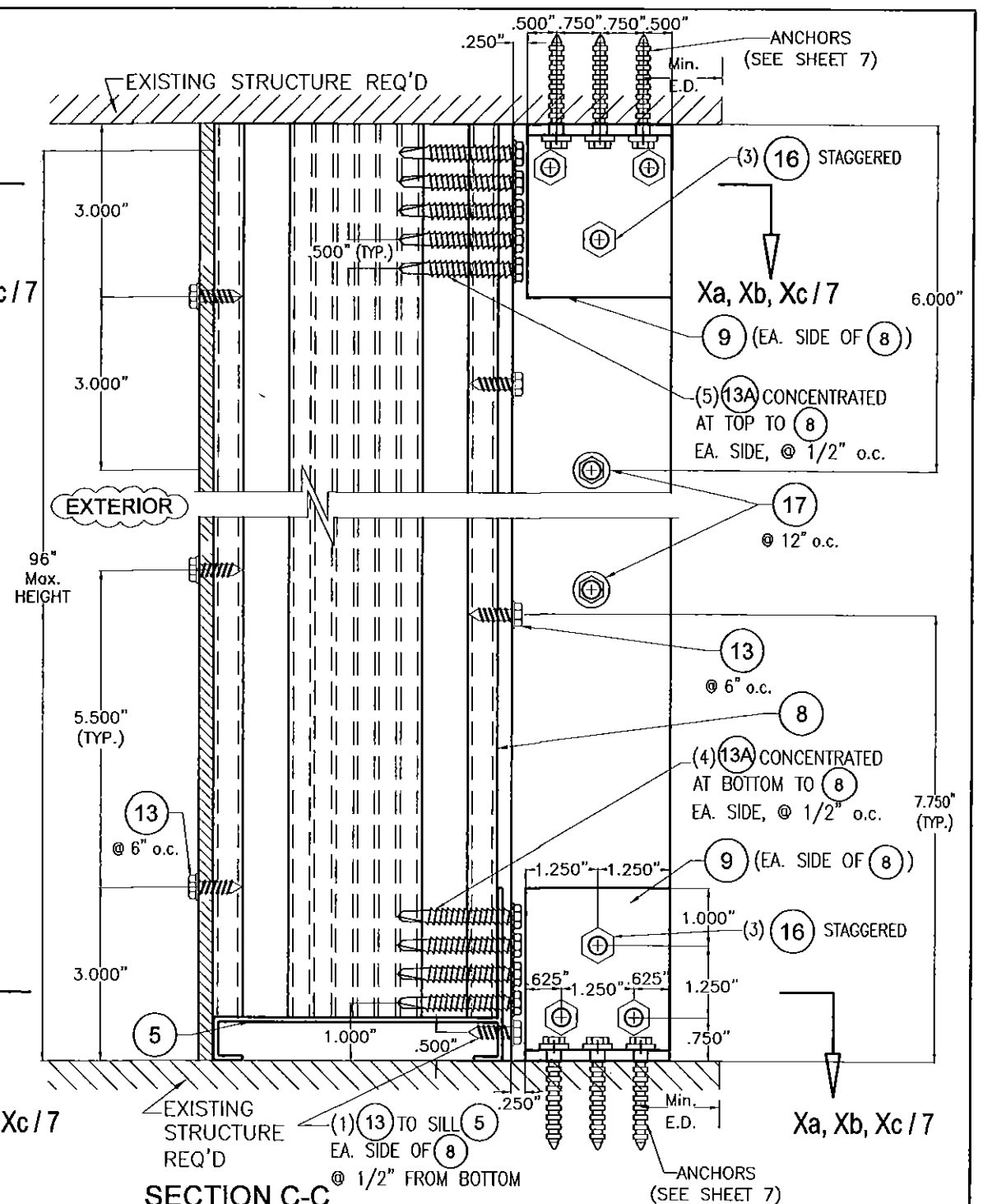
05/28/15  
DATE

15-153  
DRAWING No

SHEET 3 OF 7



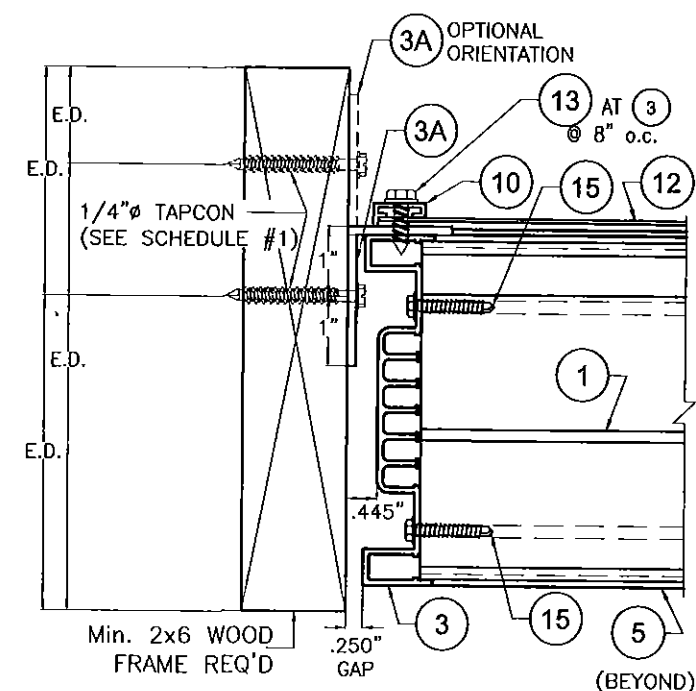
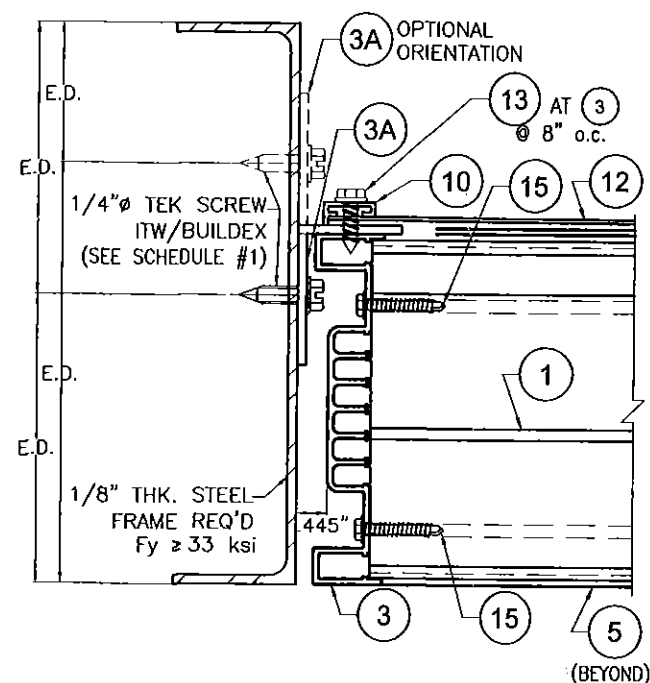
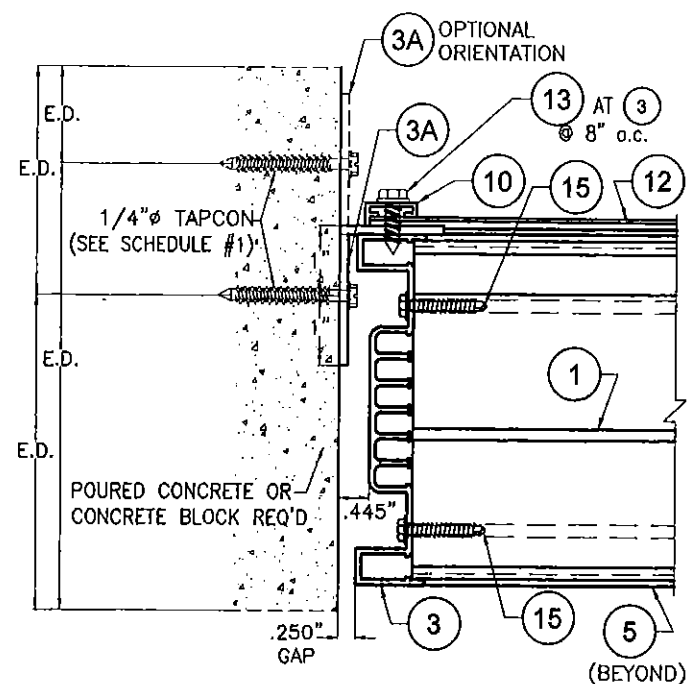
**SECTION B-B**  
**@ BLADE BRACE ANGLE (11)**  
 SCALE 3/8"=1'



SECTION C-C  
@ MULLION (8)  
SCALE 3/8"=1"

**TILTECO INC.**  
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						DRAWING No
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1	OLD 12-065	05/28/15	3			
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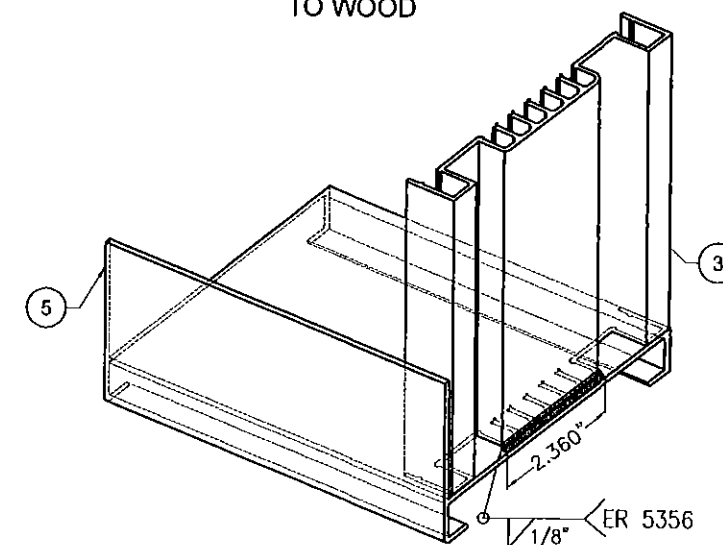


**JAMB ③ CONNECTION DETAILS TO  
DIFFERENT SUBSTRATES**  
(SEE GENERAL NOTE 6/1)

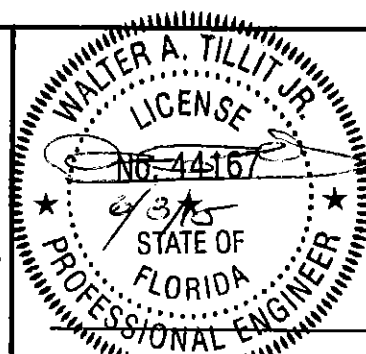
**ANCHOR SPACING SCHEDULE AT JAMB, VALID FOR CONNECTION TO  
POURED CONCRETE, CONCRETE BLOCK, STEEL & WOOD SUBSTRATES**

MAX. ANCHOR SPACING AT JAMBS, SCHEDULE # 1					
W/ (3A) (1 1/2"x 2"x1/8" ANGLE)					
MAX. A.S.D. DESIGN PRESSURE RATING (psf)	SINGLE UNIT WIDTH OR MULLION SPACING(S) AT MULTIPLE UNITS (in)	MAXIMUM SPACING (in o.c.)			
		1/4"Ø CRETE-FLEX SS4 TO POURED CONCRETE	1/4"Ø CRETE-FLEX SS4 TO CONCRETE BLOCK	1/4"Ø TEK SCREW TO STEEL	1/4"Ø TAPCON TO WOOD
±75 OR LESS	48	8	7	8	8
	60	8	5 1/2	8	7 1/2
	72	8	4 1/2	8	6 1/2
	80	8	4	8	6
> ±75 TO ±110	48	8	4 1/2	8	6 1/2
	60	8	3 1/2	8	5 1/2
	72	8	3	8	4 1/2
	80	7	3*	8	4
> ±110 TO ±150	48	8	3 1/2	8	5
	60	7	3**	8	4
	72	6	-	8	3
	80	5 1/2	-	7	3

\* VALID ONLY FOR W=100 psf.  
\*\* VALID ONLY FOR W=137 psf.



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Miami Back Product Control



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MODEL 5WDRL

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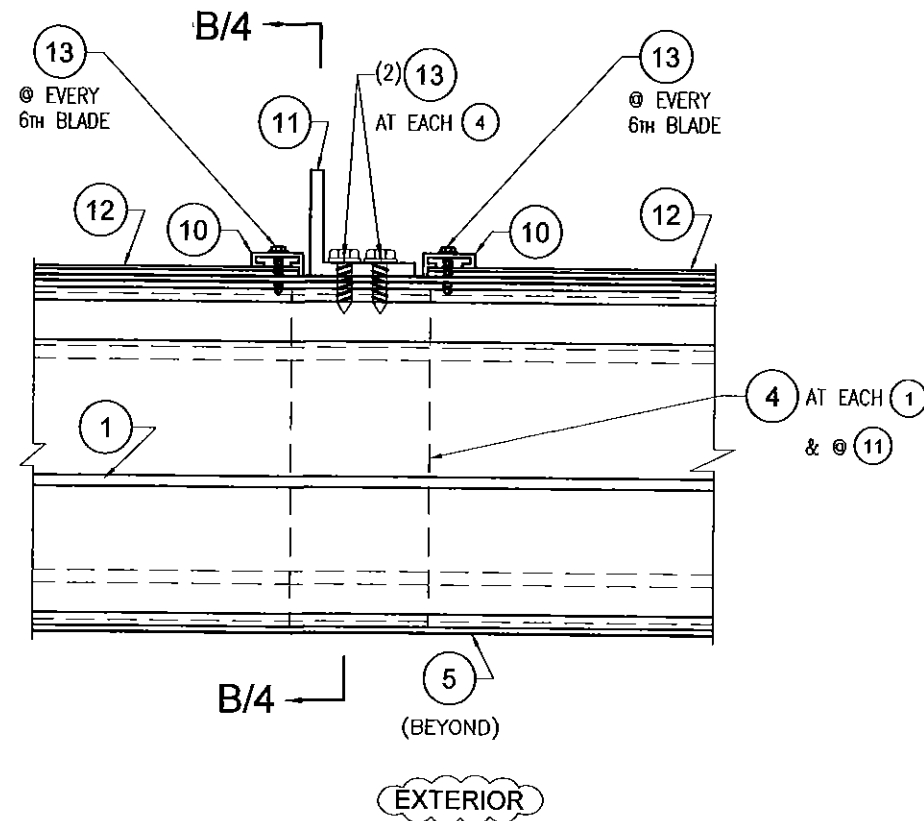
DRAWN BY:  
F.R.L.

05/28/15  
DATE

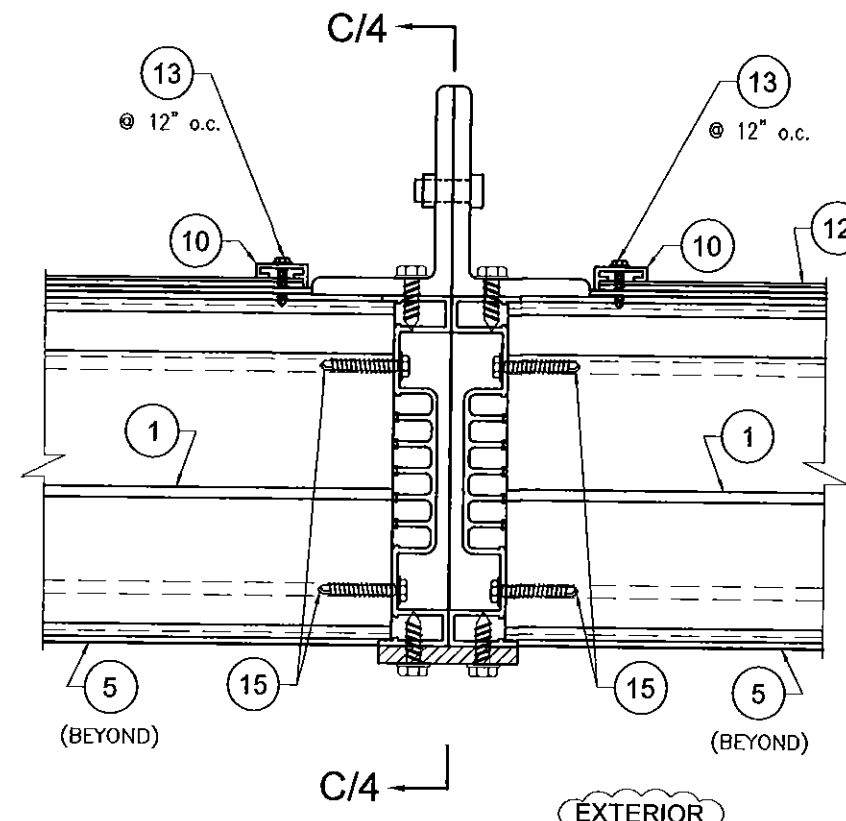
15-153  
DRAWING No.

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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SHEET 5 OF 7



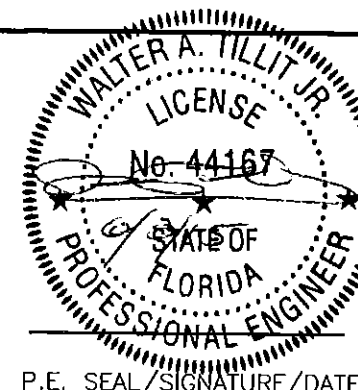
**DETAIL 2 (PLAN)**  
**@ BLADE BRACE ANGLE (11)**  
 SCALE 3/8"=1"



**DETAIL 3 (PLAN)**  
**@ MULLION (8)**  
 SCALE 3/8"=1"

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 Miami Blade Product (Contn)

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 MODEL 5WDRL

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 HARTFORD, ALABAMA 36344  
 PHONE: (334) 588-0070 , FAX: (334) 588-0071

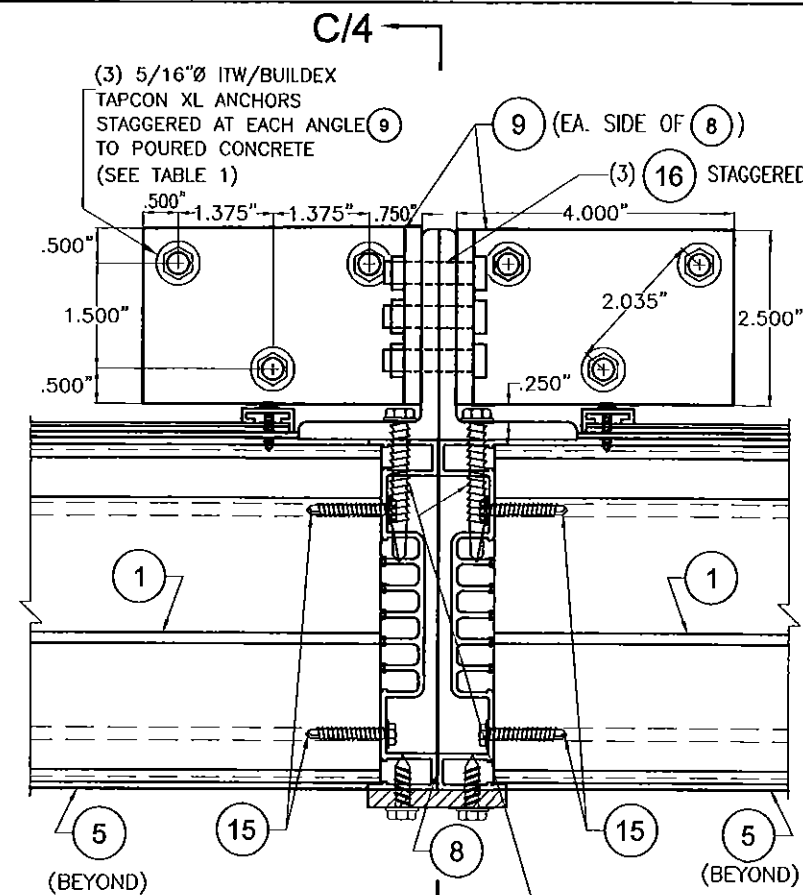
DRAWN BY:  
 F.R.L.

05/28/15  
 DATE

15-153  
 DRAWING No

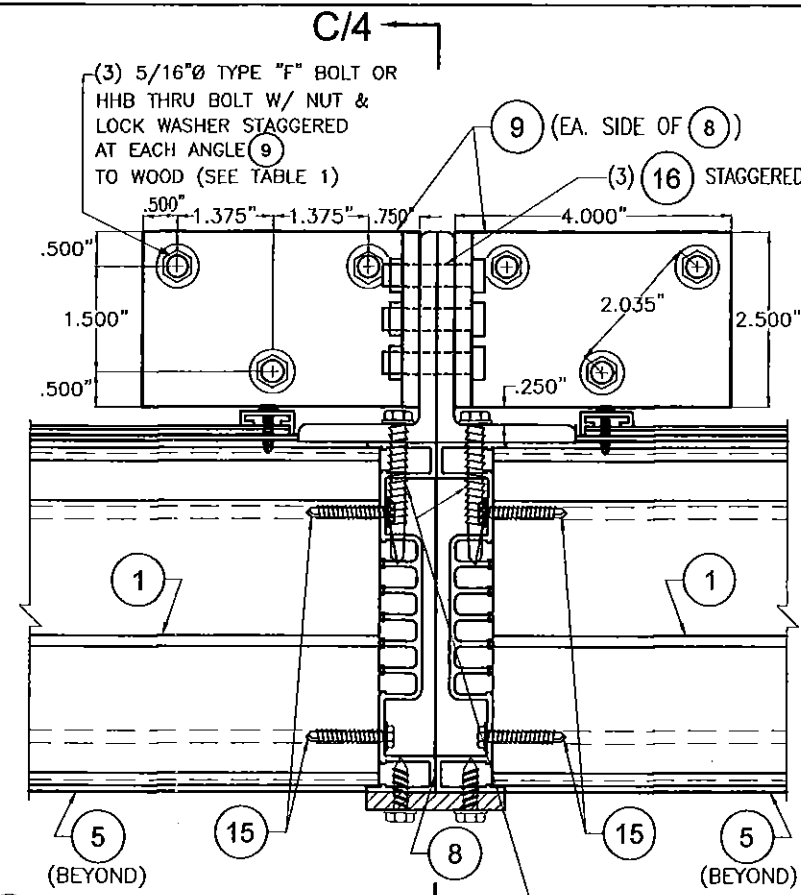
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1	OLD 12-065	05/28/15	3		
2			4		

SHEET 6 OF 7



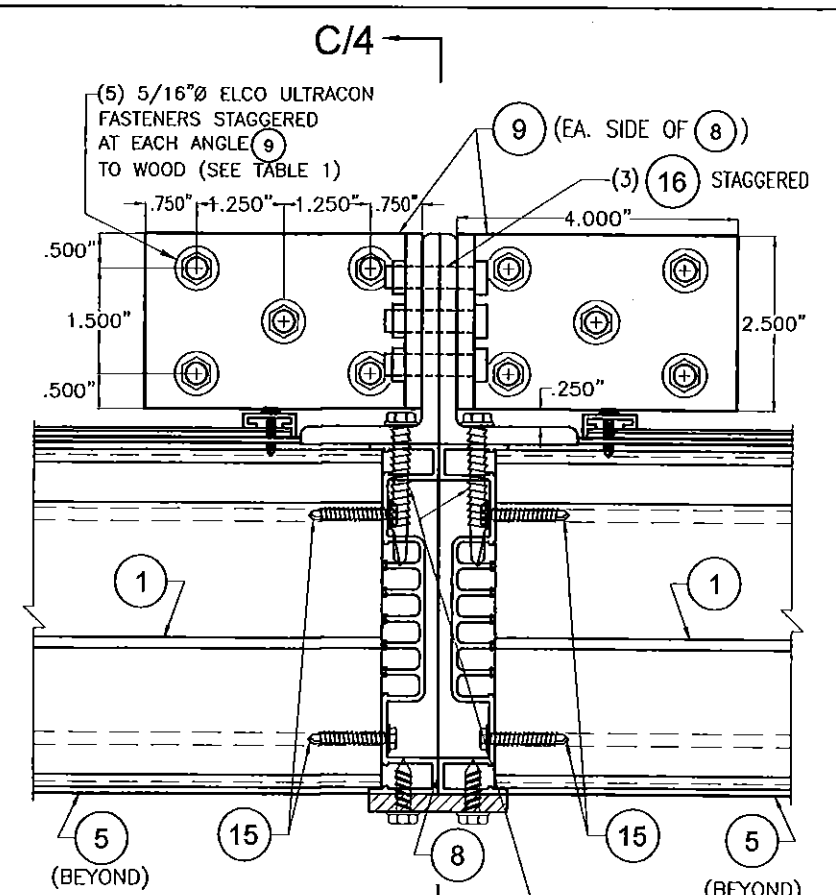
**SECTION Xa-Xa  
CONNECTION  
TO POURED CONCRETE**

SCALE: 3/8"=1"



**SECTION Xb-Xb  
CONNECTION  
TO STEEL**

SCALE: 3/8"=1"



**SECTION Xc-Xc  
CONNECTION  
TO WOOD**

SCALE: 3/8"=1"

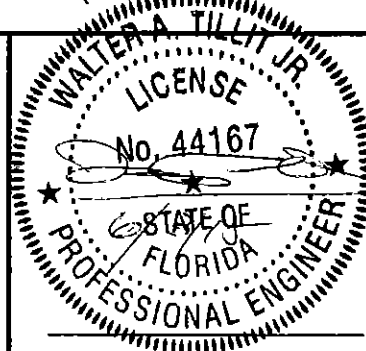
**TABLE 1**

MAX. A.S.D. DESIGN PRESSURE RATING (psf)	MAX. MULLION SPACING AT MULTIPLE UNITS (in)	TOTAL NUMBER OF ANCHORS PER CONNECTION		
		Section Xa-Xa	Section Xb-Xb	Section Xc-Xc
±75 OR LESS	48	6	6	10
	60	6	6	10
	72	6	6	10
	80	6	6	10
> ±75 TO ±110	48	6	6	10
	60	6	6	10
	72	6	6	10
	80	-	6	10
> ±110 TO ±150	48	6	6	10
	60	-	6	10
	72	-	6	10
	80	-	6	10

**MULLION (8) CONNECTION DETAIL  
TOP & BOTTOM TO DIFFERENT SUBSTRATES**  
(SEE GENERAL NOTE 7/1)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 15-1008.05  
Expiration Date 02/10/2021  
By *[Signature]*  
Miami Blade Product Control

MIAMI-DADE COUNTY



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone : (305) 871-1530 • Fax : (305) 871-1531  
e-mail: tilteco@aol.com  
EB-0006719  
WALTER A. TILLIT Jr. P.E.  
FLORIDA Lic. # 44167

5" BLADE LOUVERED SYSTEM,  
MODEL 5WDRL

AIR PERFORMANCE, INC.

159 GENCO DRIVE  
HARTFORD, ALABAMA 36344  
PHONE: (334) 588-0070 • FAX: (334) 588-0071

DRAWN BY:  
F.R.L.

05/28/15  
DATE

15-153  
DRAWING No

SHEET 7 OF 7

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 12-065	05/28/15	3		
2			4		